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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	OCKET NO. CONFIRMATION NO.	
10/798,157	03/11/2004	Wenjie Li	FIS920030393US1	7576	
30449	7590 12/14/2004		EXAMINER		
SCHMEISER, OLSEN + WATTS			LEE, SIN J		
SUITE 201 3 LEAR JET			ART UNIT	PAPER NUMBER	
LATHAM, N	IY 12033		1752		

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summ	2071	10/798,157	LI ET AL.					
Office Action Summary		Examiner	Art Unit					
		Sin J. Lee	1752					
The MAILING DATE of this Period for Reply	communication appe	ears on the cover sheet	with the correspondence ac	ddress				
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of - If the period for reply specified above is less the - If NO period for reply is specified above, the no - Failure to reply within the set or extended period for reply received by the Office later than three arned patent term adjustment. See 37 CFR	DMMUNICATION. provisions of 37 CFR 1.136 of this communication. nan thirty (30) days, a reply on naximum statutory period will, by statute, of the months after the mailing of	6(a). In no event, however, may within the statutory minimum of Il apply and will expire SIX (6) M	v a reply be timely filed thirty (30) days will be considered time to NTHS from the mailing date of this control of the contro	ly. xommunication.				
Status				,				
1) Responsive to communication	on(s) filed on 11 Ma	rch 2004						
2a) This action is FINAL .		action is non-final,						
	-		ottoro proposition 4- 4					
closed in accordance with the	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	- praemes sings, - 20	pano quayio, 1000 c						
	to the control of							
4) Claim(s) 1-20 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.							
7) Claim(s) 6 is/are objected to	6) Claim(s) 1-20 is/are rejected.							
8) Claim(s) are subject to restriction and/or election requirement.								
	o restriction and/or e	siection requirement.						
Application Papers								
9) The specification is objected								
10) The drawing(s) filed on <u>11 March 2004</u> is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that a	iny objection to the dr	awing(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) i	ncluding the correction	n is required if the drawir	g(s) is objected to. See 37 CF	R 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a a) All b) Some * c) Nor	a claim for foreign pi ne of:	riority under 35 U.S.C.	§ 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the Int	ernational Bureau (PCT Rule 17.2(a)).		Ü				
* See the attached detailed Offic	e action for a list of	the certified copies no	t received.					
Attachment(s)								
1) Notice of References Cited (PTO-892)		4) Interview	Summary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing R 3) Information Disclosure Statement(s) (PTO 	eview (PTO-948)	Paper No	(s)/Mail Date					
Paper No(s)/Mail Date	1449 OF PTO/SB/08)	5) Notice of 6) Other:	Informal Patent Application (PTO- 	-152)				
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Actio	n Summary	Part of Paper No./Mail Da	40400004				

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DETAILED ACTION

Claim Objections

1. Claim 6 is objected to because of the following informalities: on the first line of claim 6, applicants need to change "claim 6" to --- claim 5 ---. Appropriate correction is required.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4, 7-11, 13-17, 19, and 20 of copending Application No. 10/820,117 in view of Iwasa et al (6,074,801).

Claims 1 and 13 of App.'117 teaches present claims 1 and 13 except for the present multihydroxy-containing additive. Iwasa teaches (col.18, lines 4-26, col.19, lines 4-9) the use of 0.02-20 wt.% of polyhydric alcohol (alcohol with equal to or more than 2 valences) in a negative type photoresist composition in order to improve resolution. Iwasa includes 1,2-cyclohexanediol as one of the examples for such

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polyhydric alcohol. Based on Iwasa's teaching, it would have been obvious to one of ordinary skill in the art to use a polyhydric alcohol such as 1,2-cyclohexanediol (present Q would be alicyclic group of 6 carbons and present m would be 2) in the negative photoresist composition of claims 1 and 13 of App.'117 in order to improve resolution of the photoresist composition as taught by Iwasa. Therefore, claims 1 and 13 of App.'117 in view of Iwasa would render obvious present inventions of claims 1-3, 13, and 18.

Claim 1 of App.'117 in view of Iwasa and further in view of claim 2 of App.'117 would render obvious present invention of claim 4. Claim 13 of App.'117 in view of Iwasa and further in view of claim 16 of App.'117 would render obvious present invention of claim 16.

Claim 1 of App.'117 in view of Iwasa and further in view of claims 3 and 4 of App.'117 would render obvious present inventions of claims 5 and 6. Claim 17 of App.'117 states that one of the first and second polymer further comprises a repeating unit formed from a monomer having an aqueous base soluble moiety. Therefore, one of ordinary skill in the art would immediately envisage the first polymer of App.'117 to further comprise a repeating unit formed from a monomer having an aqueous base soluble moiety. Therefore, claim 13 of App.'117 in view of Iwasa and further in view of claim 17 of App.'117 would render obvious present invention of claim 17.

Claim 1 of App.'117 in view of Iwasa and further in view of claim 7 of App.'117 would render obvious present invention of claim 7.

Claim 1 of App.'117 in view of Iwasa and further in view of claims 8-10 of App.'117 would render obvious present inventions of claims 8-10.

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With respect to present claims 11 and 12, claim 11 of App.'117 teaches that the first polymer (present polymer (c)) is present in 0.1-30 wt.%, the solvent is present in 65-99 wt.%, and the photoacid generator is present 0.5-20 wt.% of the combined weight of the first and second polymer. These ranges overlap with present ranges of claims 11 and 12. Iwasa teaches (as explained above) the use of 0.02-20 wt.% of polyhydric alcohol. This range also overlaps with present ranges of claims 11 and 12. Therefore, prior art's ranges would render present ranges prima facie obvious. In the case "where the [claimed] ranges overlap or lie inside ranges disclosed by the prior art," a prima facie case of obviousness would exist which may be overcome by a showing of unexpected results, In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976). Also, although App.'117 does not explicitly teach the present range for the amount of the quencher, since claim 10 of App.'117 teaches the use of a quencher, it is the Examiner's position that the present range for the amount of the quencher in present claims 11 and 12 would have been obvious to one of ordinary skill in the art because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 UPQ 215 (CCPA 1980). Therefore, claim 1 of App.'117 in view of Iwasa and further in view of claim 11 of App.'117 would render obvious present inventions of claims 11 and 12.

Claim 13 of App.'117 in view of Iwasa and further in view of claim 14 of App.'117 would render obvious present invention of claim 14.

Claim 13 of App.'117 in view of Iwasa and further in view of claim 15 of App.'117 would render obvious present invention of claim 15.

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Claim 13 of App.'117 in view of Iwasa and further in view of claims 19 and 20 of App.'117 would render obvious present inventions of claims 19 and 20.

This is a provisional obviousness-type double patenting rejection.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. J.L.

S. Lee

December 10, 2004

Sin J. Lee

Sin J. Lee

Patent Exammer

Technology Center 1700